BRUHAT BANGALORE MAHANAGARA PALIKE

FIRST AND FINAL BILL

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimated Cost : Rs. 55.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 015-23-000012

Name of Agency: Sri. U. Ramesh, No. 12, 4th Cross, Sunrishe Colony, Cholanayakanahalli, Bangalore - 32.

Work order No: BBMP/EE/BTP/WO/173/2022-23 D: 15-03-2023.

	Measurements Recarded on :	30\08\2023							
Sl No	Description of work	Mesurement				Qty.	Unit	Rate	Amount
		No.	L	B	D				
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						Cum		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 to 03 is =					**585.95**		214.80	**125862.00**
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						Cum		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 04 to 05 is =					**88.46**		6414.25	**567405.00**

Contractor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						Cum		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 06 to 09 is =					**217.46**		7237.00	**1573758.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						Tonne		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 10 to 11 is =					**13.42**		106446.21	**1428508.00**
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**						Cum		
	Culvert Ramp								
	2nd Cross Road Maruthi Layout	2	5.20	1.00	0.15	1.56			
	3rd Cross Road Maruthi Layout	2	5.10	1.00	0.15	1.53			
	4th Cross Road Maruthi Layout	2	4.60	1.00	0.15	1.38			
	7th Cross Road Ganesh Layout	2	6.00	1.00	0.15	1.80			
	Muniswamappa Layout	2	6.50	1.00	0.15	1.95			
	Total					**8.22**		6615.20	**54377.00**
6	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **100 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete.						Sqm		
	Covering Slab								
	Maruthi Layout 2nd Cross								
	E/S	7	0.60	0.75		3.15			

AEE (VRP) SD

Contractor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
		13	0.60	0.75		5.85			
		8	0.60	0.75		3.60			
		22	0.60	0.75		9.90			
	W/S								
		9	0.60	0.75		4.05			
		10	0.60	0.75		4.50			
		16	0.60	0.75		7.20			
		30	0.60	0.75		13.50			
	Maruthi Layout 4th Cross								
	E/S	14	0.60	0.75		6.30			
		15	0.60	0.75		6.75			
		23	0.60	0.75		10.35			
		14	0.60	0.75		6.30			
	W/S								
		15	0.60	0.75		6.75			
		14	0.60	0.75		6.30			
		3	0.60	0.75		1.35			
		9	0.60	0.75		4.05			
	Vinayakanagara 7th Cross S/S								
	E/S	6	0.60	0.75		2.70			
	W/S								
		15	0.60	0.75		6.75			
		11	0.60	0.90		5.94			
	Vinayakanagara 7th Cross N/S								
	E/S	1	15.00	0.75		11.25			
		1	15.00	0.75		11.25			
		1	3.80	0.75		2.85			
	W/S								
		1	15.00	0.75		11.25			
		1	15.00	0.75		11.25			
		1	3.20	0.75		2.40			
	Ganesh Layout 6th Cross N/S								
		1	15.00	0.75		11.25			
		1	15.00	0.75		11.25			
		1	15.30	0.75		11.47			
	New Sai Garden 1st Cross								
	E/S	1	15.00	0.75		11.25			
		1	15.00	0.75		11.25			
		1	13.90	0.75		10.42			
	New Sai Garden 3rd Cross								
	E/S	1	15.00	0.75		11.25			
		1	15.00	0.75		11.25			
		1	15.00	0.75		11.25			
		1	6.50	0.75		4.87			
		-1	8.70	0.75		-6.53			

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560050

J. Ramesh
Contractor

Assistant Engineer

Assistant Executive Engineer
Assistant Executive Engineer

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
	W/S								
		1	9.50	0.75		7.12			
	Muniswamappa Layout	1	15.00	0.60		9.00			
		1	15.00	0.60		9.00			
		1	15.00	0.60		9.00			
		1	5.00	0.60		3.00			
	Missing Slabs								
		1	3.60	0.75		2.70			
		1	6.60	0.75		4.95			
		1	1.80	0.75		1.35			
		1	2.40	0.75		1.80			
		1	6.00	0.75		4.50			
		1	1.80	0.75		1.35			
		1	6.00	0.75		4.50			
		1	1.20	0.75		0.90			
		1	2.40	0.75		1.80			
		1	6.00	0.75		4.50			
		1	2.40	0.75		1.80			
		1	1.80	0.75		1.35			
		1	3.00	0.75		2.25			
		1	1.80	0.75		1.35			
		1	2.40	0.75		1.80			
		1	1.80	0.75		1.35			
		1	4.20	0.75		3.15			
	Total					**343.04**			
	Qty Limited to					**342.14**		2175.39	**744288.00**
7	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **230 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete.						Sqm		
	Culvert Slab								
	2nd Cross Road Maruthi Layout	1	5.20	1.50		7.80			
	3rd Cross Road Maruthi Layout	1	5.10	1.50		7.65			
	4th Cross Road Maruthi Layout	1	4.60	1.50		6.90			
	7th Cross Road Ganesh Layout	1	6.00	1.50		9.00			
	Muniswamappa Layout	1	6.50	1.50		9.75			
						41.10			
	Total					**41.10**			
	Qty upto 125%					**36.00**		5288.34	**190380.00**
	Qty above 125%					**5.10**		5287.84	**26968.00**
8	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)						Cum		

Contractor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer

Sl No	Description of work	Mesurement				Qty.	Unit	Rate	Amount
		No.	L	B	D				
	Qty Vide Item No- (1)					585.95			
	Total					**585.95**		85.46	**50075.00**
9	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km						T.Km		
	Qty frm Item No-06		585.95	1.28		750.01			
	Total					**750.01**		121.26	**90946.00**
	EIRL								
E1	Removing and resetting of footpath slab (Approved arrival rate)						Sqm		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 12 is =					**159.17**		246.70	**39267.00**
								Sub Total =	**4891629.00**
								Add GST @ 18% =	**880493.00**
								Grand Total =	**5772122.00**

Assistant Engineer
Ward No. 15, Kuvempunagara

Assistant Executive Engineer
Vidyaranyapura Sub-Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Contractor